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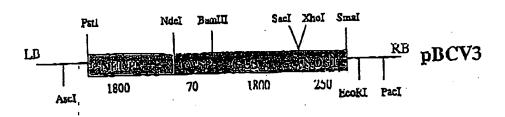
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(54) Title:- PROCESS TO COLLECT METABOLITES FROM MODIFIED NECTAR BY INSECTS



(57) Abstract

The invention relates to a recombinant double stranded DNA molecule comprising an expression cassette comprising the following constituents: i) a promoter functional in nectarities of plants, ii) a DNA sequence encoding a protein which is translationally fixed to the DNA fii) a DNA sequence encoding a signal peptide that targets the recombinant protein to nectar, which is translationally fixed to the DNA sequence encoding the recombinant protein, and optionally iv) a signal sequence functional in plants for the transcription termination and polyadenylation of an RNA molecule. The invention further relates to a process for producing a recombinant gene product from honey, polyadenylation of an RNA molecule. The invention further relates to a process for producing a recombinant gene product from honey, from the transgenic cell, and selecting modified plants exhibiting exerction of the recombinant gene product in nectar, ii) allowing insects, from the transgenic cell, and selecting modified plants exhibiting exerction of the recombinant gene product in nectar, iii) allowing the gene preferably bees, to collect nectar from the transgenic plants and to process the nectar into honey, and iii) isolating and purifying the gene product from the honey.